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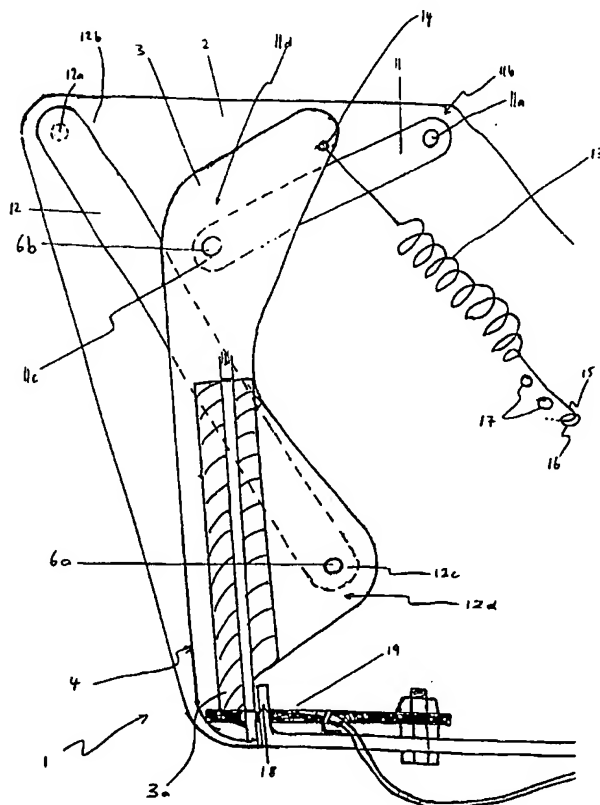
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[Continued on next page]

(54) Title: TILT MECHANISM



(57) Abstract: A tilt mechanism (1) for tilting objects (such as outboard motors) connected thereto including at least one side mounting bracket (2) supporting a backing plate (3). The backing plate (3) has a lower operational position (4) and a raised storage position (5). An adjustable connection arrangement (11, 12, 6a, 20) is provided connecting the backing plate (3) to the at least one side mounting bracket (2). The adjustable connection arrangement includes first (6a) and a second (6b) adjustable connection points which are restrained to each travel in arcuate paths (7, 8) during movements of the backing plate (3) between the operational and storage positions. When in the operational position, the force due to gravity on the backing plate produces biasing forces about the respective adjustable connection points in opposite directions (9, 10) along the arcuate paths thereby providing an automatic raising function.

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INTERNATIONAL SEARCH REPORT

International application No.
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A. CLASSIFICATION OF SUBJECT MATTER		
Int. Cl. ⁷ : B63H 20/08, F16M 13/00		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols)		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI IPC B63H 20/ , F16M 11/ , 13/ and keywords: tilt and arc, curve etc.		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5941497 A (INOUE et al) 24 August 1999 Drawings	1-16
X	US 6225962 B1 (BLANCHARD et al) 1 May 2001 Figs. 4-5	1-16
X	US 4013249 A (MEYER et al) 22 March 1977 Figs. 1 and 4	1-16
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Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustalia.gov.au Facsimile No. (02) 6285 3929		Authorized officer Sylvain Deschanel Telephone No : (02) 6283 2368

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5151058 A (TAHARA et al) 29 September 1992 Figs. 13-14	1-16
X	US 4406632 A (BLANCHARD) 27 September 1983 Figs. 1-2	1-16
X	US 5547407 A (PEIRCE) 20 August 1996 Figs. 1-3	1-16
X	US 5169350 A (TSUJII) 8 December 1992 Drawings	1-3, 7-16
X	US 4931027 A (NAKAHAMA et al) 5 June 1990 Drawing	1-3, 7-16
X	US 4673358 A (IWAI et al) 16 June 1987 Drawings	1-3, 7-16
X	US 4682961 A (NAKAHAMA) 28 July 1987 Drawings	1-3, 7-16
X	US 3075490 A (LANG) 29 January 1963 Figs. 3-4	1-3, 7-16
X	US 3245641 A (HART) 12 April 1966 Figs. 1-4	1-3, 7-16
X	US 2782744 A (STALEY) 26 February 1957 Figs. 1-2	1-3, 7-16
X	US 3033500 A (GRAVES) 8 May 1962 Figs. 1-3	1-3, 7-16
X	GB 2035934 A (MCELROY) 25 June 1980 Figs. 1-7	1-3, 7-16

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/NZ03/00182

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member			
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US	6225962				
US	5151058	JP	4005193		
US	4406632	CA	1155717	CA	1181292
		JP	57060997	US	4406634
				US	4504237
US	4013249	CA	1049476	JP	52069193
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US	4931027	JP	60113797		
US	4673358	JP	60248493		
US	4682961	JP	60199794		
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END OF ANNEX					